

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LP2015PC00	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/EP2004/012065	International filing date (day/month/year) 26/10/2004	(Earliest) Priority Date (day/month/year) 27/10/2003
Applicant LONZA AG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/012065

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N11/04 C12N11/08 C12P13/02 C12P17/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N C12P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, BIOSIS, EMBASE, FSTA

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SADA E ET AL: "PERFORMANCE OF AN ENZYME REACTOR UTILIZING A MAGNETIC FIELD" BIOTECHNOLOGY AND BIOENGINEERING, vol. 22, no. 1, 1980, pages 243-246, XP002318986 ISSN: 0006-3592 page 243	1-17
X	WO 97/06248 A (ALLIED COLLOIDS LIMITED; ARMITAGE, YVONNE, CHRISTINE; HUGHES, JONATHAN) 20 February 1997 (1997-02-20) example 2	12-17
A	US 4 774 178 A (EGERER ET AL) 27 September 1988 (1988-09-27) example 17	1-17
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

& document member of the same patent family

Date of the actual completion of the international search

24 February 2005

Date of mailing of the international search report

10/03/2005

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP2004/012065

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 4. 647 536 A (MOSBACH ET AL) 3 March 1987 (1987-03-03) cited in the application example 4 -----	1-17
A	NILSSON H ET AL: "THE USE OF BEAD POLYMERIZATION OF ACRYLIC MONOMERS FOR IMMOBILIZATION OF ENZYMES" BIOCHIMICA ET BIOPHYSICA ACTA, vol. 268, no. 1, 1972, pages 253-256, XP008043513 ISSN: 0006-3002 cited in the application the whole document -----	1-17

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/012065

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 9706248	A	20-02-1997	AU 707650 B2	15-07-1999
			AU 6707396 A	05-03-1997
			EP 0839190 A1	06-05-1998
			WO 9706248 A1	20-02-1997
			JP 11510392 T	14-09-1999
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			DK 196485 A	03-11-1985
			EP 0160260 A2	06-11-1985
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			SE 441009 B	02-09-1985
			AT 32348 T	15-02-1988
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			DK 509483 A	07-11-1983
			EP 0102985 A1	03-02-1988
			JP 59500350 T	08-03-1984
			SE 8201401 A	09-09-1983
			WO 8303102 A1	15-09-1983